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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,303	11/20/2003	Sang Hoo Dhong	AUS920030576US1	9787
45327 IBM CORPOR	7590 02/07/200 RATION (CS)	7	EXAMINER	
C/O CARR LLP			NGO, CHUONG D	
670 FOUNDE: 900 JACKSON	~		ART UNIT	PAPER NUMBER
DALLAS, TX	75202		2193	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	NTHS	02/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/718,303	DHONG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chuong D. Ngo	2193	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a n n. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	20 November 2003	•	
	This action is non-final.	•	
3) Since this application is in condition for all		ers, prosecution as to the mer	its is
closed in accordance with the practice und	•	* *	
Disposition of Claims			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the applica	ation.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-30</u> is/are rejected.	•		
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers	· .		
9)☐ The specification is objected to by the Exar	miner		·
10)⊠ The drawing(s) filed on <u>20 November 2003</u>		l abjected to by the Everginer	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co			104(4)
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for	eian priority under 35 U.S.C. 8	119(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	orgin priority under ou orono. 3	110(4) (4) 01 (1).	
1. Certified copies of the priority docum	nents have been received	•	
2. Certified copies of the priority docum		polication No	
3. Copies of the certified copies of the			•
application from the International Bu		received in this National Stage	5 .
* See the attached detailed Office action for a	. , , , ,	received	•
oss the attached detailed office action for a	a list of the certified copies not	receiveu.	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) L Interview S	Summary (PTO-413) s)/Mail Date	
 Tolice of Braitsperson's Patent Brawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) 	· —	nformal Patent Application	
Paper No(s)/Mail Date <u>11/20/03</u> .	6) Other:	• •	

DETAILED ACTION

1. Claims 1-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the preamble appears to be misdescriptive as if the function of the claimed floating point unit is to generate a correction signal and an inverted leading zero signal. Further, it is also indefinite as to what the "correction signal", the "inverted leading zero signal", and their functions are. On lines 12-13, the phrase "the exponent output value" lacks a proper antecedent basis. Further, the claim is incomplete as it only provides intermediate results. The inputs, the function and the final result of the floating point unit are also unclear.

As per claims 3, line 4, "the exponent value", should be -- the exponent output value --.

As per claim 13, it is indefinite as to what the "leading zero signal", line 3, and its function are. Claims 29 and 30 also has the same problem.

As per claim 28, "said error", line 4, lacks a proper antecedent basis. Further, the claim is incomplete as it only provides intermediate results, and the error compensating is unclear.

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

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Claims 13-28 are directed to a computer implemented method of computation. Claims 1-12 and 31 merely recite a computer implementing the method. Claim 29 are directed to a medium having instruction for implementing the method. In order for a computer related invention that is directed to such a computer implemented method of computation, a computer implementing a computation or a computer readable medium having instructions for implementing a computation, to be statutory, the claimed invention must accomplish a practical application. That is the claimed invention must transform an article or physical object to a different state or thing, or produce a useful, concrete and tangible result. State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. Also see "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility", OG Notices: 22 November 2005. It is clear from claims 1-19 that the claims merely involve calculations and manipulations of data in performing computations. The inputs are numbers and the output are also number. The claimed invention does not transform an article or physical object to a different state or thing. The result produced by the invention is merely numerical values without a practical application recited in the claims to make the result useful, concrete and tangible. Therefore, the claimed invention is directed to non-statutory subject matter as the claims fail to accomplish a practical application.

In addition, claim 29 does not recite the medium being computer readable. The invention is also non statutory as being non-functional descriptive material.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chuong D Ngo Primary Examiner Art Unit 2193

Murajo

01/30/2007